G10/1644

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TRANSMITTAL FORM

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Application Number	09/810,310
Filing Date	March 14, 2001
First Named Inventor	Khleif, Samir N.
Group Art Unit	1644
Examiner Name	M. Dibrino
Total Number of Pages in This Submission: 1	Attorney Docket Number: 015280-415100US

ENCLOSURES *(check all that apply)*

- ☐ Fee Transmittal Form
  - ☐ Fee Attached
- ☐ Amendment / Reply
  - ☐ After Final
  - ☐ Affidavits/declaration(s)
- ☐ Extension of Time Request
- ☐ Express Abandonment Request
- ☒ Information Disclosure Statement
- ☐ Certified Copy of Priority Document(s)
- ☐ Response to Missing Parts/ Incomplete Application
  - ☐ Response to Missing Parts under 37 CFR 1.52 or 1.53
- ☐ Assignment Papers *(for an Application)*
- ☐ Drawing(s)
- ☐ Licensing-related Papers
- ☐ Petition
- ☐ Petition to Convert to a Provisional Application
- ☐ Power of Attorney, Revocation Change of Correspondence Address
- ☐ Terminal Disclaimer
- ☐ Request for Refund
- ☐ CD, Number of CD(s)
- ☐ After Allowance Communication to Group
- ☐ Appeal Communication to Board of Appeals and Interferences
- ☐ Appeal Communication to Group *(Appeal Notice, Brief, Reply Brief)*
- ☐ Proprietary Information
- ☐ Status Letter
- ☒ Other Enclosure(s) *(please identify below)*:

Form PTO-1449; References: AA-DC; Return Postcard

Remarks The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm and Individual name	Townsend and Townsend and Crew LLP Brian W. Poor Reg. No. 32,928
Signature	Brian W. Poor
Date	31 January 2003

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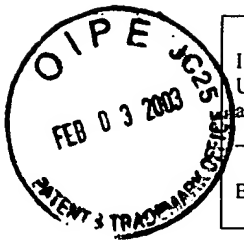

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PATENT
Attorney Docket No. 015280-415100US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

Samir Khleif *et al.*

Application No.: 09/810,310

Filed: March 14, 2001

For: METHODS AND COMPOSITIONS FOR CO-STIMULATION OF IMMUNOLOGICAL RESPONSES TO PEPTIDE ANTIGENS

Examiner: M. Dibrino

Art Unit: 1644

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Applicants direct the Examiner's attention to the references below, also listed on the accompanying Form PTO-1449. A copy of each is also enclosed.

The following U.S. Patents are set forth below by issue date.

AA. U.S. Patent No. 4,599,230, issued on July 8, 1986 to Milich *et al.*

AB. U.S. Patent No. 4,599,231, issued on July 8, 1986 to Milich *et al.*

AC. U.S. Patent No. 5,861,310, issued on January 19, 1999 to Freeman *et al.*

AD. U.S. Patent No. 5,866,553, issued on February 2, 1999 to Donnelly *et al.*

AE. U.S. Patent No. 5,942,607, issued on August 24, 1999 to Freeman *et al.*

The following foreign patent publications are set forth by approximate publication date:

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BV. Ley *et al.*, "Interleukin 2-dependent activation of tumor-specific cytotoxic T lymphocytes *in vivo*," *Eur. J. Immunol.* 21:851-854 (1991)

BW. Linsley *et al.*, "T-cell antigen CD28 mediates adhesion with B cells by interacting with activation antigen B7/BB-1," *Proc. Natl. Acad. Sci. USA* 87:5031-5035 (1990)

BX. Linsley *et al.*, Binding of the B cell activation antigen B7 to CD28 costimulates T cell proliferation and interleukin 2 mRNA accumulation," *J. Exp. Med.* 173:721-730 (1991)

BY. Liu *et al.*, "Heat-stable antigen is a costimulatory molecule for CD4 T cell growth," *J. Exp. Med.* 175:437-445 (1992)

BZ. McKisic *et al.*, "Cytolytic activity of murine $CD4^+$ T cell clones correlates with IFN-γ production in mouse strains having a BALB/c background," *J. Immunol.* 150:3793-3805 (1993)

CA. Melief, C. J. M., "Tumor eradication of adoptive transfer of cytotoxic T lymphocytes," *Adv. Cancer Res.* 58:143-175 (1992)

CB. Mueller *et al.*, "Clonal expansion versus functional clonal inactivation: a costimulatory signalling pathway determines the outcome of T cell antigen receptor occupancy," *Ann. Rev. Immunol.* 7:445-480 (1989)

CC. Nabel *et al.*, "Site-specific gene expression in vivo by direct gene transfer into the arterial wall," *Science* 249:1285-1288 (1990)

CD. Nossal, G. J. V., "Immunologic tolerance: collaboration between antigen and lymphokines," *Science* 245:147-153 (1989)

CE. Ostrand-Rosenberg *et al.*,"Rejection of mouse sarcoma cells after transfection of MHC class II genes," *J. Immunol.* 144:4068-4071 (1990)

CF. Ozdemirli *et al.*, "The cytotoxic process of CD4 Th1 clones," *J. Immunol.* 149:1889-1895 (1992)

CG. Parra *et al.*, "The role of B7-1 and LFA-3 in costimulation of $CD8^+$ T cells," *J. Immunol.* 158:637-642 (1997)

CH. Reiser *et al.*, "Murine B7 antigen provides an efficient costimulatory signal for activation of murine T lymphocytes via the T-cell receptor/CD3 complex," *Proc. Natl. Acad. Sci. USA* 89:271-275 (1992)

CI. Rock *et al.*, "Analysis of the association of peptides of optimal length to class I molecules on the surface of cells," *Proc. Natl. Acad. Sci. USA* 89:8918-8922 (1992)

CJ. Rosenberg *et al.*, "A new approach to the adoptive immunotherapy of cancer with tumor-infiltrating lymphocytes, *Science* 233:1318-1321 (1986)

CK. Rosenberg *et al.*, "Cancer immunotherapy using interleukin-2 and interleukin-2-activated lymphocytes," *Ann. Rev. Immunol.* 4:681-709 (1986)

CL. Rötzschke *et al.*, "Isolation and analysis of naturally processed viral peptides as recognized by cytotoxic T cells," *Nature* 348:252-254 (1990)

CM. Rudensky *et al.*, "Sequence analysis of peptides bound to MHC class II molecules," *Nature* 353:622-627 (1991)

CN. Salomon *et al.*, "Cutting edge: LFA-1 interaction with ICAM-1 and ICAM-2 regulates Th2 cytokine production,"*J. Immunol.* 161:5138-5142 (1998)

CO. Schreiber *et al.*, "Unique tumor-specific antigens," *Ann. Rev. Immunol.* 6:465-483 (1988)

CP. Schulz *et al.*, "Peptide-induced antiviral protection by cytotoxic T cells," *Proc. Natl. Acad. Sci. USA* 88:991-993 (1991)

CQ. Schwartz, "Acquisition of immunologic self-tolerance," *Cell* 57:1073-1081 (1989)

CR. Selvakumar *et al.*, "Genomic organization and chromosomal location of the human gene encoding the B-lymphocyte activation antigen B7," *Immunogenetics* 36:175-181 (1992)

CS. Staunton *et al.*, "Primary structure of ICAM-1 demonstrates interaction between members of the immunoglobulin and integrin supergene families," *Cell* 52:925-933 (1988)

CT. Swallow *et al.*, "B7h, a novel costimulatory homolog of B7.1 and B7.2, is induced by TNFα," *Immunity* 11:423-432 (1999)

CU. Thompson *et al.*, "CD28 activation pathway regulates the production of multiple T-cell-derived lymphokines/cytokines," *Proc. Natl. Acad. Sci. USA* 86:1333-1337 (1989)

CV. Townsend *et al.*, "Antigen recognition by class I-restricted T lymphocytes," *Ann. Rev. Immunol.* 7:601-624 (1989)

CW. Townsend *et al.*, "Tumor rejection after direct costimulation of $CD8^+$ T cells by B7-transfected melanoma cells," *Science* 259:368-370 (1993)

CX. Turka *et al.*, "T-cell activation by the CD28 ligand B7 is required for cardiac allograft rejection *in vivo*," *Proc. Natl. Acad. Sci. USA* 89:11102-11105 (1992)

CY. van-Seventer *et al.*, "The LFA-1 ligand ICAM-1 provides an important costimulatory signal for T cell receptor-mediated activation of resting T cells," *J. Immunol.* 144:4579-4586 (1990)

CZ. Wallner *et al.*, "Primary structure of lymphocyte function-associated antigen 3 (LFA-3) - The ligand of the T lymphocyte CD2 glycoprotein," *J. Exp. Med.* 166:923-932 (1987)

DA. Wingren *et al.*, "T cell activation pathways: B7, LFA-3, and ICAM-1 shape unique T cell profiles," *Crit. Rev. Immunol.* 15:235-253 (1995)

DB. Wolff *et al.*, "Direct gene transfer into mouse muscle in vivo," *Science* 247:1465-1468 (1990)

DC. Young *et al.*, "The B7/BB1 antigen provides one of several costimulatory signals for the activation of $CD4^+$ T lymphocytes by human blood dendritic cells in vitro," *J. Clin. Invest.* 90:229-237 (1992)

It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

Applicants believe that their invention as claimed is patentable over the above references taken alone or in any combination. However, Applicants reserve the right to demonstrate that their claimed invention was made prior to any one or more of the above-identified references. No inference should be drawn as to the pertinence of the references based on the order in which they are presented.

Applicants respectfully request that the Examiner review the foregoing references to make her own determination of the patentability of the present invention and that the references be made of record in the file of this application.

This Information Disclosure Statement is being filed after the mailing date of the first Office Action and after three months of the filing date, but prior to the Notice of Allowance or Final Office Action.

CERTIFICATION

I hereby certify that no item of information in the information disclosure statement filed herewith was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in Section 1.56(c) more than three months prior to the filing of this information disclosure statement.

Although no fee is believed to be due, the Commissioner is hereby authorized to charge any fees necessitated by this transmittal to Townsend and Townsend Deposit Account No. 20-1430.

Respectfully submitted,

Dated: 31 January 2003 By: Brian W. Poor
Brian W. Poor
Reg. No. 32,928

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FORM PTO-1449 (Modified)	Attorney Docket No.: 015280-415100US	Application No.: 09/810,310
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	Applicant: Samir Khleif *et al.*	
	Filing Date: March 14, 2001	Group: 1644

Reference Designation — **U.S. PATENT DOCUMENTS** —

Examiner Initial		Document No.	Date	Name	Class	Sub-class	Filing Date (If Appropriate)
	AA.	4,599,230	July 8, 1986	Milich *et al.*			
	AB.	4,599,231	July 8, 1986	Milich *et al.*			
	AC.	5,861,310	Jan.19, 1999	Freeman *et al.*			
	AD.	5,866,553	Feb. 2, 1999	Donnelly *et al.*			
	AE.	5,942,607	Aug. 24, 1999	Freeman *et al.*			

FOREIGN PATENT DOCUMENTS

		Document No.	Date	Country	Class	Sub-class	Translation (Yes/No)
	AF.	90/11092	Oct. 4, 1990	WO			

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	AG.	Acsadi *et al.*, "Human dystrophin expression in mdx mice after intramuscular injection of DNA constructs," *Nature* 352:815-818 (1991)
	AH.	Aichele *et al.*, "Antiviral cytotoxic T cell response induced by in vivo priming with a free synthetic peptide," *J. Exp. Med.* 171:1815-1820 (1990)
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	BX.	Linsley *et al.*, Binding of the B cell activation antigen B7 to CD28 costimulates T cell proliferation and interleukin 2 mRNA accumulation," *J. Exp. Med.* 173:721-730 (1991)
	BY.	Liu *et al.*, "Heat-stable antigen is a costimulatory molecule for CD4 T cell growth," *J. Exp. Med.* 175:437-445 (1992)
	BZ.	McKisic *et al.*, "Cytolytic activity of murine $CD4^+$ T cell clones correlates with IFN-γ production in mouse strains having a BALB/c background," *J. Immunol.* 150:3793-3805 (1993)
	CA.	Melief, C. J. M., "Tumor eradication of adoptive transfer of cytotoxic T lymphocytes," *Adv. Cancer Res.* 58:143-175 (1992)
	CB.	Mueller *et al.*, "Clonal expansion versus functional clonal inactivation: a costimulatory signalling pathway determines the outcome of T cell antigen receptor occupancy," *Ann. Rev. Immunol.* 7:445-480 (1989)
	CC.	Nabel *et al.*, "Site-specific gene expression in vivo by direct gene transfer into the arterial wall," *Science* 249:1285-1288 (1990)
	CD.	Nossal, G. J. V., "Immunologic tolerance: collaboration between antigen and lymphokines," *Science* 245:147-153 (1989)
	CE.	Ostrand-Rosenberg *et al.*,"Rejection of mouse sarcoma cells after transfection of MHC class II genes," *J. Immunol.* 144:4068-4071 (1990)
	CF.	Ozdemirli *et al.*, "The cytotoxic process of CD4 Th1 clones," *J. Immunol.* 149:1889-1895 (1992)
	CG.	Parra *et al.*, "The role of B7-1 and LFA-3 in costimulation of $CD8^+$ T cells," *J. Immunol.* 158:637-642 (1997)
	CH.	Reiser *et al.*, "Murine B7 antigen provides an efficient costimulatory signal for activation of murine T lymphocytes via the T-cell receptor/CD3 complex," *Proc. Natl. Acad. Sci. USA* 89:271-275 (1992)
	CI.	Rock *et al.*, "Analysis of the association of peptides of optimal length to class I molecules on the surface of cells," *Proc. Natl. Acad. Sci. USA* 89:8918-8922 (1992)
	CJ.	Rosenberg *et al.*, "A new approach to the adoptive immunotherapy of cancer with tumor-infiltrating lymphocytes, *Science* 233:1318-1321 (1986)
	CK.	Rosenberg *et al.*, "Cancer immunotherapy using interleukin-2 and interleukin-2-activated lymphocytes," *Ann. Rev. Immunol.* 4:681-709 (1986)
	CL.	Rötzschke *et al.*, "Isolation and analysis of naturally processed viral peptides as recognized by cytotoxic T cells," *Nature* 348:252-254 (1990)
	CM.	Rudensky *et al.*, "Sequence analysis of peptides bound to MHC class II molecules," *Nature* 353:622-627 (1991)
	CN.	Salomon *et al.*, "Cutting edge: LFA-1 interaction with ICAM-1 and ICAM-2 regulates Th2 cytokine production,"*J. Immunol.* 161:5138-5142 (1998)
	CO.	Schreiber *et al.*, "Unique tumor-specific antigens," *Ann. Rev. Immunol.* 6:465-483 (1988)
	CP.	Schulz *et al.*, "Peptide-induced antiviral protection by cytotoxic T cells," *Proc. Natl. Acad. Sci. USA* 88:991-993 (1991)
	CQ.	Schwartz, "Acquisition of immunologic self-tolerance," *Cell* 57:1073-1081 (1989)
	CR.	Selvakumar *et al.*, "Genomic organization and chromosomal location of the human gene encoding the B-lymphocyte activation antigen B7," *Immunogenetics* 36:175-181 (1992)
	CS.	Staunton *et al.*, "Primary structure of ICAM-1 demonstrates interaction between members of the immunoglobulin and integrin supergene families," *Cell* 52:925-933 (1988)
	CT.	Swallow *et al.*, "B7h, a novel costimulatory homolog of B7.1 and B7.2, is induced by TNFα," *Immunity* 11:423-432 (1999)

FORM PTO-1449 (Modified)	Attorney Docket No.: 015280-415100US	Application No.: 09/810,310
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	Applicant: Samir Khleif *et al.*	
	Filing Date: March 14, 2001	Group: 1644

	CU.	Thompson *et al.*, "CD28 activation pathway regulates the production of multiple T-cell-derived lymphokines/cytokines," *Proc. Natl. Acad. Sci. USA* 86:1333-1337 (1989)
	CV.	Townsend *et al.*, "Antigen recognition by class I-restricted T lymphocytes," *Ann. Rev. Immunol.* 7:601-624 (1989)
	CW.	Townsend *et al.*, "Tumor rejection after direct costimulation of $CD8^+$ T cells by B7-transfected melanoma cells," *Science* 259:368-370 (1993)
	CX.	Turka *et al.*, "T-cell activation by the CD28 ligand B7 is required for cardiac allograft rejection *in vivo*," *Proc. Natl. Acad. Sci. USA* 89:11102-11105 (1992)
	CY.	van-Seventer *et al.*, "The LFA-1 ligand ICAM-1 provides an important costimulatory signal for T cell receptor-mediated activation of resting T cells," *J. Immunol.* 144:4579-4586 (1990)
	CZ.	Wallner *et al.*, "Primary structure of lymphocyte function-associated antigen 3 (LFA-3) - The ligand of the T lymphocyte CD2 glycoprotein," *J. Exp. Med.* 166:923-932 (1987)
	DA.	Wingren *et al.*, "T cell activation pathways: B7, LFA-3, and ICAM-1 shape unique T cell profiles," *Crit. Rev. Immunol.* 15:235-253 (1995)
	DB.	Wolff *et al.*, "Direct gene transfer into mouse muscle in vivo," *Science* 247:1465-1468 (1990)
	DC.	Young *et al.*, "The B7/BB1 antigen provides one of several costimulatory signals for the activation of $CD4^+$ T lymphocytes by human blood dendritic cells in vitro," *J. Clin. Invest.* 90:229-237 (1992)

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.